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RECENT BOOKS AND PAMPHLETS.

ALLEN, HARRISON.—The Anatomy of the Nasal Chambers. Reprint from the *New York Medical Journal*, Feb., 1889. From the author.

BAUR, G.—Paleohatteria Credner and the Proganosauria. Extract from the *Am. Journ. of Science*, Vol. XXXVII., April, 1889. From the author.

BLYTT, A.—On Variations of Climate in the Course of Time. Reprint from *Christiana Videnskabs-Selskabs Forhandling* 1886, No. 8. From the author.

BOETTGER, O.—Ein neue Pelobates aus Syrien. Separatabdruck aus dem *Zoologischen Anzeiger*, No. 302, 1889. From the author.

BOULE, MARCELLIN.—Les Prédécesseurs de nos Canidés. From the author.

CLARKE, F. W.—Report of Work Done in the Division of Chemistry, 1885-86. Bull. of U. S. Geol. Survey, No. 42. From Department of the Interior.

DÖDERLEIN, L.—Das Skelet von Pleuracanthus. Separatabdruck aus dem *Zoologischen Anzeiger*, No. 301, 1889. From the author.

DUMBLE, E. T.—Texas Geological and Mineralogical Survey, 1888. From W. T. Cummins.

ECCLES, R. G.—Descent and Disease. Reprint from the *Brooklyn Medical Journ.*, Feb., 1889. From the author.

EVERHART, EDGAR.—Infant Food. Read before the Texas State Geol. and Scientific Ass., May 17, 1887. From the author.

FRENZENY, P.—The Bucking Horse. From the author.

GARMAN, H.—On the Anatomy and Histology of a New Earth Worm (*Diplocardia communis*). Extract from Bull. Illinois State Laboratory of Nat. Hist., Vol. III. From the author.

GEGENBAUR, C.—Über die Occipital Region und die ihr Benachbarten Wirbel der Fische. From the author.

HALE, HORATIO.—The Development of Language. Reprint from Proceedings of Canadian Institute, Vol. VI. From the author.

HIGLEY, W. K.—Reptilia and Batrachia of Wisconsin. Reprint from Vol. VII. of the Trans. of Wis. Acad. of Sciences, Arts and Letters. From the author.

HOUGH, WALTER.—An Esquimo Strike-a-Light from Cape Bathurst, British Am. Extract from the Proceedings U. S. National Museum, Vol. XI., 1889. From the author.

HOWES, G. B. and A. M. DAVIS.—Observations upon the Morphology and Genesis of Supernumary Phalanges, with especial reference to those of the Amphibia. Extract from the Proceedings of the Zool. Soc. of London, Dec. 4, 1888. From the author.

IRELAND, WM.—Eighth Annual Report of the State Mineralogist for the year ending Oct. 1, 1888. From the author.

KÜNTZ, GEORGE.—On Two New Masses of Meteoric Iron.—Mineralogical Notes. Extracts from *Am. Journ. Science*, Vol. XXXVI., 1888.—Precious Stones. Abstract from Mineral Resources of U. S. Calendar, 1887. Meteoric Iron from Arkansas, 1886. Extract from U. S. Nat. Museum, Vol. X. From the author.

LAWRENCE, G. N.—Remarks upon Abnormal Coloring of Plumage Observed in Several Species of Birds. Extract from *The Auk*, Vol. VI., Jan., 1889. From the author.

LECHE, WILHELM.—Über Einen Jungen Menschlichen Embryo. Biologiska Förenings Förhandlingar, Verhandlungen des Biologischen Vereins in Stockholm, Band I., Mars, 1889, No. 6. From the author.

LINTNER, J. A.—Cut-worms. Bull. of the New York State Museum of Natural History, No. 6, Nov., 1888. From the author.

MANIGAULT, G. E.—On the Probable Source of the Phosphorus in the South Carolina Phosphates. Proceedings of the Elliott Society. From the author.

MEYER, OTTO.—List of Scientific Publications (printed as manuscript). From the author.

MEYER, OTTO, and SAMUEL PENFIELD.—Results Obtained by Etching a Sphere and Crystals of Quartz with Hydrofluoric Acid. Report from Trans. Conn. Acad., Vol. VIII., 1889. From the authors.

NASON, F. L.—New York Minerals and their Locality. Bull. New York State Museum of Nat. Hist., No. 4, August, 1888. From the author.

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RILEY, C. V.—The Hessian Fly an Imported Insect. Extract from the *Canadian Entomologist*, Vol. XX. From the author.

RILEY, C. V.—Poisonous Insects. Extract from the Reference Handbook of the Medical Sciences, Vol. V., 1887. From the author.

SEELEY, H. G.—On *Pareiasaurus bombidens* (Owen), and the Significance of its Affinities to Amphibians, Reptiles, and Mammals.—On Parts of the Skeleton of a Mammal from Triassic Rocks of Klipfontein, Fraserberg, South Africa, illustrating the Reptilian Inheritance in the Mammalian Hand. Extract from Philosophical Trans. of the Roy. Soc. of London, Vol. 179 (1888), B. From the author.

SHUFELDT, R. W.—Comparative Data from 2,000 Indian Crania in the the U. S. Army Medical Museum. Reprint from the *Jour. of Anat. and Physiology*, Vol. XXII. From the author.

SMITH, E. F.—Peach Yellows. A Preliminary Report, Bull. No. 9, Department of Agriculture. From J. M. Rusk.

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TRAQUAIR, R. H.—Notes on *Chondrosteus acipenseroides* (Agassiz). Extract from the *Geol. Mag.*, June, 1887. From the author.

TOPINARD, M. P.—Les Dernières Etapes de la Généalogie de l'Homme. Extrait de la *Revue d'Anthropologie* du mois de Mai, 1888. De l'auteur.

VASEY, GEORGE and B. T. GALLOWAY.—A Record of Some Work of the Division. Bull. No. 8, U. S. Department of Agriculture. From Norman Coleman.

WHITEAVES, J. F.—On Some Cretaceous Fossils from British Columbia, the Northwest Terr. and Manitoba. Extract from Geol. and Nat. Hist. Survey of Canada. From the author.

WHITMAN, C. O.—First Annual Report of the Marine Biological Laboratory, 1888. From the Director.

WIEDERSHEIM, R.—Zur Urgeschichte des Beckens. Besonderer Abdruck aus den Gesellschaft zu Freiburg i. B., Band IV., Heft 3.

WILLIS, BAILEY.—Changes in River Courses in Washington Territory due to Glaciation. Bull. of U. S. Geological Survey No. 41. From the Department of the Interior.

WILLIAMS, H. S.—On the Fossil Faunas of the Upper Devonian—The Genesee Section, New York. Bull. of the U. S. Geol. Survey, No. 41. From the Department of the Interior.

Am. Nat.—February.—4.

WINCHELL, ALEX.—Conglomerates Enclosed in Gneissic Terranes. Reprint from *The Am. Geol.*, March, 1889. From the author.

WOLTERSTORFF, W. VON—Die Amphibien Westpreusses. Separatabdruck aus den Schriften der Naturforschenden Gesellschaft in Dantzig. N. F. VII., Bd. 2, Heft, 1889. From the author.

WOODWARD, A. S.—A Comparison of the Cretaceous Fish-fauna of Mt. Lebanon with that of the English Chalks. Extract from the *Ann. and Mag. of Nat. Hist.*, Oct., 1888. From the author.

General Notes.

GEOLOGY AND PALEONTOLOGY.

The Tertiary and Cretaceous of Alabama.¹—The long sections furnished by the rivers of Alabama, have been the principal sources of our knowledge of the Cenozoic and Mesozoic geology of that State, and it is to Professor Eugene Smith, of Tuscaloosa, that we are indebted for the greater part of our recent knowledge of the subject. He gives the following synopsis of the formations included in the memoir:

| | | | | | | | |
|----------------------|---|---------|-------------------|--------------------------|---------|--------------------------------|---------|
| Tertiary, Eocene) | { | Upper. | { | White Limestone. | { | Coral Limestone (?Vicksburg), | 150 |
| | | | | | { | Vicksburg (Oolitoïdal), | 140 |
| | | | | | { | Jackson, | 65 |
| | { | Middle. | { | Claiborne, Buhrstone, | { | | 140-145 |
| | | | | | { | | 300 |
| | | | | | { | | 170 |
| | { | Lower. | { | Lignitic. | { | Hatchetigbee, | 80-85 |
| | | | | | { | Wood's Bluff, | 140 |
| | | | | | { | Belle's Landing | 200 |
| | | | | | { | Nanafalia, | 130-150 |
| | | | | | { | Matthew's Landing and Naheola, | 100 |
| | | | | | { | Black Bluff, | 25 |
| { | | | | | Midway, | 250-275 | |
| Cretaceous. | { | { | Ripley, | 1000 | | | |
| | | | Rotten Limestone, | 300 | | | |
| | | | Eutaw, | ? 1000 | | | |
| ? Cretaceous. | { | { | Tuscaloosa, | | | | |

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The Tuscaloosa formation (McGee) is of uncertain age, some reasons for placing it within the Jurassic system having been adduced. This is the formation which has described by some of the geologists of the U. S. Geological Survey under the name of Potomac. Mr. McGee's name, having priority by many years, must be adopted.

¹ On the Tertiary and Cretaceous Strata of the Tuscaloosa, Tombigbee and Alabama Rivers; by Eugene A. Smith and Lawrence C. Johnson. Bulletin U. S. Geological Survey, 1887, No. 43.